Index to Volume 13, January 1958 to December 1958

Allen, Durward L. Too green the grass, 113
American Camping Association, benefits, 37
Anderson, Marvin A. Improving public understanding of water problems and policies, 61

Announcements of coming events, meetings, 37, 89, 137, 180, 182, 243, 280
Atkins, M. C. Cover on watershed dams, 220
Atomic hazard, 37

Audio-Visual (films, slides, tape, radio, TV, exhibits)
Energetically Yours (film), 175; exhibit board for library, 92; farm Newsreel (TV), 182; film lists, 182; Our Magic Land (film), 42; convention photos and slides, 286; television in education, 182; Water for the West (film), 182; watershed slides, Caterpillar Co., 182; Watershed Wildfire (film), 182; Wilderness Alps of Stehekin (film), 182

Avalanches, Austrian safeguards, 234
Bailey, R. Y. "Dick", retires, 241
Barnes, Leland H. Flood damage evaluation on Honey Creek, Texas, 226
Bay, Roger R. Forest type affects snowpack, 129; Occurrence and depth of frozen soil, 232
Beck, Roy R. Southern Appalachian grasslands, 110; Mapping soils in the Great Smoky Mountains, 158
Becker, R. J. Land-use adjustments in community development, 215
Bell, F. F. and D. K. Springer. Cooperative studies in soil productivity and management in Tennessee, 156
Benson, Ezra Taft. Quotation, 214

Book Reviews, 30, 85, 132, 178, 235, 282; *see also,* **Reviews**
Brinser, Ayers and Hugh M. Raup. The land use and conservation program at Harvard, 269
Broadfoot, W. M. and E. R. Toole. What's causing the mortality in southern hardwoods? 276
Brogan, Olwen, *see* Larson, Floyd D., 160
California, University of, water resources center, 177
Clayton, Frank W. Conservation and city schools, 195
Collison, Frederick E. and Gene H. Novak. Improvements in using power for soil sampling, 78
Colorado State University, watershed management program, 176
Cottam, Clarence. Wildlife and water conservation, 65

Croplands
agronomy abstracts, publication on, 283
conservation reserve program, 53; benefits, 280; summary, 239
cropping system changes, 172
drain tiles recorded, 35
dry farming, publication on, 179
land and water use problems, 163
nitrogen, residual effects on wheatlands, 75
soil productivity studies in Tennessee, 156
stubble mulch studies, 255; publications on, 181, 283
stubble used, not burned, 73
USDA 1958 yearbook, Land (*noticed*), 284; yearbook for 1957, reviewed, 132
winter cover crops, 207
Diethyltolumide, 234

Districts—soil conservation, in other countries, 251; Ohio, 34

Drainage—land owners should protect interests, 83; tiles, 35
Dunford, E. G. Watershed management research in the Pacific Northwest, 23
Dyksterhuis, E. J. Range conservation as based on sites and condition classes, 151

Economics
adjustments in southeast, 84
cropping systems change, 172
expenditures by farmers, publication on, 239
land adjustments in community development, 215
river basin developments, publication on, 235
under-developed countries, publication on, 133
United States, problems of development, publication on, 284
water and land problems, 163
watershed worth in Oklahoma, 223; in Texas, 226
Edelman, C. H. and J. M. Van Staveren. Marsh soils in the United States and in the Netherlands, 5

Editorial—note, 37; correction, 239; erratum, 280; **photo credits,** 90, 130, 197, 214, 274

Education—adult, in New York, 39; extension education progress, 176; *see also,* **Professional and Education**
Estuarine development, 176

Field Note Briefs, 37, 83, 175, 234, 280
Fogle, Pearl L. Rushcreek watershed organizes, 125

Forestry
biology laboratory, 281; fire research laboratory, 281
conservation reserve program, aid to, 53
fertilizers, 37, 181
forest soils, publication on, reviewed, 238
hardwoods, mortality in southern, 276
history of, Biltmore estate, 101
history of, industrial development, publication on, 181
how to farm your forest, publication on, 88
in districts, 117
Operation Outdoors, 36
publications (1905-55), noticed, 34
timber resources review, publication on, 88
tours, publication on, 285
tree farming, 83
water yields, 106
woodland use in Iowa, 228
Frank, Bernard. Eagle Rocks prong, 230
Gerard, C. J., *see* Hunter, A. S., 75
Hall, W. E., *see* Hunter, Albert S., 75
Harrison, Phoebe. Soil conservation districts in other countries, 251
Harvard University, program of conservation education at, 269
Heim, Roger. "L'Homme stupide", 174
Hendrickson, B. H. A fertility survey of exposed subsoils from highway road banks in the Coosa watershed of Georgia, 27
Hewlett, John D. Pine and hardwood forest water yield, 106
Hill, Russell G. The SCSA in tomorrow's living, 272; *see also,* President's column, 40, 89 136, 183, 241
Hunter, Albert S., W. E. Hall, and C. J. Gerard. Substantial residual effects of nitrogen observed on summer fallow wheatlands in Oregon, 75
Hursh, Charles R. Mr. Kawabata's planting brick, 76

Industry—lagooning oil wastes, 37; partners in land and water conservation, 245

Inventory and Surveys
measurements in—drainage areas of Iowa, 181; Iowa soils, 283; watersheds of Iowa, 177
NASCD questionnaire, 29

Index to Volume 13, January 1958 to December 1958

Allen, Durward L. Too green the grass, 113
American Camping Association, benefits, 37
Anderson, Marvin A. Improving public understanding of water problems and policies, 61

Announcements of coming events, meetings, 37, 89, 137, 180, 182, 243, 280
Atkins, M. C. Cover on watershed dams, 220
Atomic hazard, 37

Audio-Visual (films, slides, tape, radio, TV, exhibits)
Energetically Yours (film), 175; exhibit board for library, 92; farm Newsreel (TV), 182; film lists, 182; Our Magic Land (film), 42; convention photos and slides, 286; television in education, 182; Water for the West (film), 182; watershed slides, Caterpillar Co., 182; Watershed Wildfire (film), 182; Wilderness Alps of Stehekin (film), 182

Avalanches, Austrian safeguards, 234
Bailey, R. Y. "Dick", retires, 241
Barnes, Leland H. Flood damage evaluation on Honey Creek, Texas, 226
Bay, Roger R. Forest type affects snowpack, 129; Occurrence and depth of frozen soil, 232
Beck, Roy R. Southern Appalachian grasslands, 110; Mapping soils in the Great Smoky Mountains, 158
Becker, R. J. Land-use adjustments in community development, 215
Bell, F. F. and D. K. Springer. Cooperative studies in soil productivity and management in Tennessee, 156
Benson, Ezra Taft. Quotation, 214

Book Reviews, 30, 85, 132, 178, 235, 282; *see also,* **Reviews**
Brinser, Ayers and Hugh M. Raup. The land use and conservation program at Harvard, 269
Broadfoot, W. M. and E. R. Toole. What's causing the mortality in southern hardwoods? 276
Brogan, Olwen, *see* Larson, Floyd D., 160
California, University of, water resources center, 177
Clayton, Frank W. Conservation and city schools, 195
Collison, Frederick E. and Gene H. Novak. Improvements in using power for soil sampling, 78
Colorado State University, watershed management program, 176
Cottam, Clarence. Wildlife and water conservation, 65

Croplands
agronomy abstracts, publication on, 283
conservation reserve program, 53; benefits, 280; summary, 239
cropping system changes, 172
drain tiles recorded, 35
dry farming, publication on, 179
land and water use problems, 163
nitrogen, residual effects on wheatlands, 75
soil productivity studies in Tennessee, 156
stubble mulch studies, 255; publications on, 181, 283
stubble used, not burned, 73
USDA 1958 yearbook, Land (*noticed*), 284; yearbook for 1957, reviewed, 132
winter cover crops, 207
Diethyltolumide, 234

Districts—soil conservation, in other countries, 251; Ohio, 34

Drainage—land owners should protect interests, 83; tiles, 35
Dunford, E. G. Watershed management research in the Pacific Northwest, 23
Dyksterhuis, E. J. Range conservation as based on sites and condition classes, 151

Economics
adjustments in southeast, 84
cropping systems change, 172
expenditures by farmers, publication on, 239
land adjustments in community development, 215
river basin developments, publication on, 235
under-developed countries, publication on, 133
United States, problems of development, publication on, 284
water and land problems, 163
watershed worth in Oklahoma, 223; in Texas, 226
Edelman, C. H. and J. M. Van Staveren. Marsh soils in the United States and in the Netherlands, 5

Editorial—note, 37; correction, 239; erratum, 280; **photo credits,** 90, 130, 197, 214, 274

Education—adult, in New York, 39; extension education progress, 176; *see also,* **Professional and Education**
Estuarine development, 176

Field Note Briefs, 37, 83, 175, 234, 280
Fogle, Pearl L. Rushcreek watershed organizes, 125

Forestry
biology laboratory, 281; fire research laboratory, 281
conservation reserve program, aid to, 53
fertilizers, 37, 181
forest soils, publication on, reviewed, 238
hardwoods, mortality in southern, 276
history of, Biltmore estate, 101
history of, industrial development, publication on, 181
how to farm your forest, publication on, 88
in districts, 117
Operation Outdoors, 36
publications (1905-55), noticed, 34
timber resources review, publication on, 88
tours, publication on, 285
tree farming, 83
water yields, 106
woodland use in Iowa, 228
Frank, Bernard. Eagle Rocks prong, 230
Gerard, C. J., *see* Hunter, A. S., 75
Hall, W. E., *see* Hunter, Albert S., 75
Harrison, Phoebe. Soil conservation districts in other countries, 251
Harvard University, program of conservation education at, 269
Heim, Roger. "L'Homme stupide", 174
Hendrickson, B. H. A fertility survey of exposed subsoils from highway road banks in the Coosa watershed of Georgia, 27
Hewlett, John D. Pine and hardwood forest water yield, 106
Hill, Russell G. The SCSA in tomorrow's living, 272; *see also,* President's column, 40, 89 136, 183, 241
Hunter, Albert S., W. E. Hall, and C. J. Gerard. Substantial residual effects of nitrogen observed on summer fallow wheatlands in Oregon, 75
Hursh, Charles R. Mr. Kawabata's planting brick, 76

Industry—lagooning oil wastes, 37; partners in land and water conservation, 245

Inventory and Surveys
measurements in—drainage areas of Iowa, 181; Iowa soils, 283; watersheds of Iowa, 177
NASCD questionnaire, 29

national soil and water survey needs, 83; publication on procedures, 34
rainfall, recovering, 84
timber resources review, publication on, 88
topsoil and civilization, book on, 284
watershed projects, operational methods, 18
watersheds authorized, summary of, 280
Kennington, Mary. What women and children can do to promote soil conservation, 70
Kingery, Clarence E. Working SCSA chapters, 20
Larson, Floyd D. and Olwen Brogan. In the footsteps of the Romans, 160

Letters
H. H. Bennett, 42; T. S. Buie, 281; Grady Clay, 41; Farmer of Southern Asia, 39; Kel M. Fox, 242; Philip M. Glick, 242; Robin L. Harvey, 183; Clifford R. Hope, 41; C. R. Humphreys, 41; Henry Jarrett, 242; Richard Kilbourne, 41; R. O. Lewis, 287; concerning "The Wonder of Water", 91
Mark, Frederick A. Meeting Washington's small watershed problems, 259
Marston, Richard B. Parrish canyon, Utah: a lesson in flood sources, 165
Mattison, Charles W. What's the idea of this Conservation Education Association? 168
McCalla, T. M. Microbial and related studies of stubble mulching, 255
Miller, E. N., Jr. Land resources map of South Carolina, 83

NASCD—questionnaire results, 29; meeting of, 37; Soil stewardship week, 89

News Notes, 40, 89, 136, 183, 241, 286
Niederfrank, E. J. and Wendell R. Tascher. The human side of watershed program, 121
Novak, G. H., *see* Collison, F. E., 78

Plant Materials
cover crops, winter, 207
cover on watershed dams, 220
planter in Missouri, 281
planting brick, facilitates use of materials, 76
shelterbelt, fruit shrubs, 175; publication on, 239
southern Appalachian grasslands, 110

Population—factor, 281; L'Homme stupide, 174; world, in relation to food supply, publication on, 240

Professional and Education
Arizona publication, 285
California, University of, water resources center, 177
Colorado State University, watershed management, 176
Conservation Education Association, 168
conservation education in colleges, publication on, 237
conservation education, publications on, 182, 239, 283, 285
education project, Washington, D. C. *SCSA* chapter, 195
Extension service, 176, 238
fellowships available, 234
Harvard University program, 269
interpreting our heritage, publication on, 85
Montana State University, administration school, 37, 280
natural area values, 131, 230, 285
outdoor education for youths, publication on, 182; camp, 177
public understanding of water problems, improving, 61
research goals (Too Green the Grass), 113; *see also,* Williams, D. A., 147
suggestions to teachers using Wonder of Water, *publication,* 137
training guide, irrigation, publication on, 88
watersheds and human side, 121; organization methods, 125
women and children, 70
Yale conservation studies, publication on, 87

Rangelands
conservation of, 57, 151
dry farming in the northern Great Plains, publication on, 179
Flat top ranch, publication on, 133
grasslands, in southern Appalachians, 110
grassland reservations, 131
life of a northern desert, publication on, 182
pasture irrigation handbook, publication on, 239
poisonous plants to livestock, publication on, 285
range forage production and hydrology, publication on, 239
range influence publications, 34
range, its nature and use, publication on, 284
Raup, Hugh M., *see* Brinser, Ayers, 269

Research
atomic energy in agriculture (*review*), 133
cover crops, 207
frost and infiltration, 81
mycorrhiza in nurseries, Austria develops use of, 234
nitrogen residual effects, 75
range conservation, 151
reservations, need for grassland, 131; wilderness, 230
seepage loss, 84
soil and water, research needs for, to be studied, 234
stubble mulch, microbial studies, 255
tidal marshes, 240
USDA committee reports on some needs, 234
water yields from forest, 106
watershed needs in Pacific Northwest, 23; Washington, 259
Wisconsin report on renewable resources, 88

Reviews
Allred, B. W. and J. C. Dykes (*editors*). Flat top ranch—the story of a grassland venture, 133
Ashby, A. W. Public lands, 32
Bauer, P. T. and B. S. Yamez. The economics of underdeveloped countries, 133
Blair, W. Frank *et al.* Vertebrates of the United States, 87
Callison, C. H. (*editor*). America's natural resources, 134
Chapman, J. D. *et al.* The British Columbia atlas of resources, 235
Clarke, G. L. Elements of ecology, 236
Clawson, M. and B. Held. The Federal lands, 30
Conservation Foundation. Resource training, 282
Coyle, D. C. Conservation, 32
Dick, W. E. Atomic energy in agriculture, 133
Duke University, School of Law. River basin development, 235
Errington, P. L. Of men and marshes, 86
Graham, J. B. and M. Burrill (*editors*). Water for industry, 31
Green, Ivah. Water, our most valuable natural resource, 135
Hargreaves, M. W. M. Dry farming in the north Great Plains, 251
Hart, H. C. The dark Missouri, 132
Higbee, Edward. American agriculture, 283
Lively, C. E. and J. J. Preiss. Conservation education in American colleges, 237
Nixon, E. B. (*editor*). Franklin D. Roosevelt and conservation, 179
RFF. Annual report of Resources for the Future, 178
Soil Conservation Society of India. The challenge of our watershed, 283
Spectorsky, A. C. (*editor*). The book of the earth, 135
Tilden, Freeman. Interpreting our heritage, 85
USDA. Soil: 1957 yearbook, 132

Watts, M. T. Reading the landscape, 134
West Virginia Department of Education and Conservation Commission. Living, learning, loving West Virginia, 85
Wilde, S. A. Forest soils, 238
Williams, Howel (*editor*). Landscapes of Alaska, 283
Wing, L. W. Natural history of birds, 33
Yale Conservation Club. Yale conservation studies, 87

Reviewers

Akin, Wallace E. (*reviews of*), American agriculture, 283; British Columbia Atlas, 235; Landscapes of Alaska, 283; Public lands, 32; Water for industry, 31
Alexander, L. T. (*review of*), Atomic energy in agriculture, 133
Clark, Wilson F. (*reviews of*), Interpreting our heritage, 85; Elements of ecology, 236
Cooper, H. (*review of*), Dry farming in the northern Great Plains, 179
Frank, Bernard (*review of*), Forest soils, 238
Hines, L. G. (*reviews of*), Book of the earth, 135; Economics of underdeveloped countries, 133; Resources for the Future annual report, 178; River basin development, 235
Meyer, Martin H. (*review of*), Flat top ranch, 133
Osborn, Ben (*review of*), Water, our most valuable natural resource, 135
Pritchard, H. W. (*reviews of*), America's natural resources, 134; Dark Missouri, 132
Stoddard, Charles H. (*reviews of*), Conservation, 32; Franklin D. Roosevelt and conservation, 179
Thompson, Louis (*review of*), Soil, USDA yearbook, 132
Wade, D. E. (*reviews of*), Challenge of our watershed, 283; Conservation education in American colleges, 237; Federal lands, 30; Natural history of birds, 33; Of men and marshes, 86; Reading the landscape, 134; Resource training, 282; Vertebrates of the United States, 87; Yale conservation studies, 87

Rural development program, 83

Sartz, Richard S., *see* Trimble, George R., 81

Shelford, V. E. Grassland reservations, 131

Soil Conservation Society of America

audit, annual, 90
bylaws, proposed, 189; explained, 188
conference, 13th annual: notices of, 89, 137, 184, 186, 187, 189; banners at, 138; map, points of interest, and aids to plan conference trip, 186; program of, 184; summary, 286
chapters: achievement contest, 137; banners, 138; delegate session, 137; news of, 44, 92, 138, 193, 244, 290; North Carolina, winner of activities contest, 286; "On beam", 177; Washington, D. C. No. 1, education project, 195; West Virginia, fair exhibit, 194; working SCSA chapters, 20
goals for 1958 year, 43
members: charter, 46, 94, 141, 196; fellows and honorary, 288; news of members, 47, 91, 96, 142, 198, 246, 292
membership reports, December (1957), 42, April, 137, June, 188, October, 286; quota for states, 42
officers, 287
president's column, 40, 89, 136, 183, 241, 272
publications: Land utilization in the United States, announced, 26; Suggestions to teacher for using "Wonder of Water", announced, 137; Wonder of Water: 42; distribution of, 137; letters concerning, 91; sales of, 183
secretary's column, 40, 188, 241, 286; explanation of tax deductions available, 241

South Carolina, land resources map, 83

Springer, D. K., *see* Bell, F. F., 156

Stoddard, Charles H. Districts, forestry, and wildlife management, 117
Stump, W. G. Woodland conservation in an agricultural state, 228
Summers, Felix—art work, 69, 82, 173; **cartoons,** 38, 95, 144, 200, 248, 291
Sutton, John G. The Netherlands equipment for making auger hole maesurements, 173; *see also,* erratum, 280
Tabor, Paul and C. L. Veatch. Revegetation of road cuts in Georgia, 278
Tascher, W. R., *see* Niederfrank, E. J., 121
Thames, J. L., *see* Ursic, S. J., 231
Toole, E. R., *see* Broadfoot, W. M., 276
Trimble, George R., Jr., R. S. Sartz and R. S. Pierce. How type of soil frost affects infiltration, 81
Turelle, J. W. Conservation in the Great Plains, 57
U. S. Forest Service. Operation Outdoors, 36
Uhland, Russel E. Winter cover crops, 207
Ursic, S. J. and J. L. Thames. An inexpensive rain gage, 231
Van Staveren, J. M., *see* Edelman, C. H., 5
Veatch, C. L., *see* Tabor, Paul, 278
Vessey, J. K. The conservation reserve program promotes good land use, 53
Walker, Ray. Effects of 1957 storms on Oklahoma watersheds, 223

Watersheds

authorized by October, 280
basins, river, publication on, 235
challenge of watersheds in Asia, publication on, 283
dams, cover on, 220; highway fills as dams, 234
human side, programs and, 121
Louisiana area dedicated, 84
Ohio basin, changes in, publication on, 34
operation of projects, 18
reservoir lands, Army-Interior acquisition, publication on, 34
studies in California, 177; Colorado, 176; Iowa, 177; Michigan, 39; New Jersey, 284; Oklahoma, 223; Pacific Northwest, 23; Texas, 226; Utah, 165; Washington, 259; water resources, Duke University publications on, 235, 284
wildlife and, 65

Weather

rain gage, inexpensive, 231
snowpack in forest types, 129
soil frost, 81, 232
storm damages analyses, 223, 226

[Western Water News]. Photo contour mapping, 275
Wickline, E. V. Common chemical helps seal leaky ponds, 128

Wildlife

beneficial water rights, 280
deer and aspen, publication on, 181
fish of Ohio, publication on, 181
fish ponds, publication on, 88
in districts, 117
New York act, 176
of men and marshes, review of, 86
private waters defined in North Carolina, 84
rangeland ecology, coyote and, 281
soil and water conservation, relation to, publication on, 239
soil bank benefits, 280
water conservation and, 65
wetland acquisition, notice of article on, 181

Wilken, D. F. Changes in cropping systems, 172
Williams, D. A. To pull together, 147
Wills, J. E. Water and land use problems, 163
Wright, John W. Joy is ours (*poem*), 136
Zimmerman, Gordon, remarks of, 84